

Safety Data Sheet

Prepared for:

Anchor Drilling Fluids USA, Inc.
2431 East 61st Street, Suite 710
Tulsa, Oklahoma 74136
918.583.7701

October 22, 2013

Section 1: Identification	
<i>Identification of the chemical as well as the recommended uses and the essential contact information of the supplier.</i>	
Product Identifier:	Oil Based Mud
Common Name(s):	N/A
Chemical Family:	Mixture
Synonyms:	None
Manufacturer, Importer, and/or Responsible Party Information	
Name:	Anchor Drilling Fluids USA, Inc.
Address:	2431 East 61 st Street, Suite 710, Tulsa, Oklahoma 74136
Phone Number:	918.583.7701
Emergency Phone Number:	CHEMTREC: 800.424.9300
Recommended Use of Chemical	
Chemical Services:	Oil Based Mud is used in mud drilling production
Use Restrictions:	None

Section 2: Hazard(s) Identification	
<i>Identification of the hazards of the chemical presented and the appropriate warning information associated with those hazards.</i>	
Hazard Classification:	C.4.1, C.4.2 & C.4.3 Acute Toxicity - Oral, Dermal & Inhalation: Hazard Category 4, C.4.19 Combustible Liquids: Hazard Category 2
Signal Word:	Warning
Hazard Statement(s):	Harmful if inhaled, ingested, or in contact with skin. Combustible Liquid
Pictogram(s):	 Exclamation Mark
Precautionary Statement(s):	<i>If swallowed:</i> Call a poison center/doctor/ if you feel unwell. ... Chemical manufacturer, importer, or distributor to specify the appropriate source of emergency medical advice. Rinse mouth. <i>If on skin:</i> Wash with plenty of water, Chemical manufacturer, importer, or distributor may specify a cleansing agent if appropriate, or may recommend an alternative agent in exceptional cases if water is clearly inappropriate. Take off contaminated clothing and wash it before reuse. <i>If in eyes:</i> Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. <i>If eye irritation persists:</i> Get medical advice/attention. <i>Other:</i> Wash thoroughly after handling. Avoid breathing dust/fumes/gas/mist/vapors/spray. Use only in well ventilated areas. Wear protective clothing and gloves. Do not eat, drink or smoke when using this product. Keep away from heat/sparks/open flames/hot surfaces – no smoking.
Description of any hazards not otherwise classified:	None
Mixture Identification (if toxicity is unknown)	
Percentage of the mixture consisting of ingredient(s) with unknown toxicity:	N/A
<i>Note: this is a total percentage of the mixture and not tied to the individual ingredient(s).</i>	

Section 3: Composition/Information on Ingredients	
<i>Identification of the ingredient(s) contained in the product, including impurities and stabilizing additives. This section includes substances, mixtures and all chemicals where trade secret is claimed.</i>	
Substances	
This product is a mixture	
Mixtures	
Chemical Names and Concentration:	Diesel Oil, Petroleum Distillates – 15-45%, Barite – 5-60%, Calcium Chloride – 15-40%, Hydrocarbon Blend – 5-25%, Silica, Crystalline, Quartz – 1-5%, Calcium Hydroxide – 1-5%, Organophilic Clay – 1-5%
Chemical Abstract Service (CAS) Number:	68476-34-6, 7277-43-7, 10043-52-4, Mix, 14808-60-7, 1305-62-0
Any other unique identifiers:	None
Impurities and stabilizing additives (which are themselves classified and which contribute to the classification of the chemical):	None
Recommended Use of Chemical	
Chemical Services:	Oil Based Mud is used in mud drilling production
Use Restrictions:	None
Trade Secret	
Is the specific chemical identity and/or exact concentration of composition withheld as a trade secret?	No

Section 4: First-Aid Measures	
<i>Description of the initial care that should be given by untrained responders to an individual who has been exposed to the chemical.</i>	
Necessary first-aid instructions	
Inhalation:	Move to fresh air, if not breathing give artificial respiration; consult a physician if irritation persists
Acute Symptoms of Inhalation:	Irritation
Delayed Symptoms of Inhalation:	Possible breath cessation
Skin Contact:	Wash thoroughly with soap and water, remove contaminated clothing; consult a physician if irritation persists
Acute Symptoms of Skin Contact:	Irritation
Delayed Symptoms of Skin Contact:	Advanced irritation
Eye Contact:	Flush eyes with water for a minimum of 15 minutes; consult a physician if irritation persists
Acute Symptoms of Eye Contact:	Aggravation of eyes
Delayed Symptoms of Eye Contact:	Advanced irritation
Ingestion:	Do not induce vomiting, dilute with 2-3 glasses of water or milk. Do not give anything by mouth to an unconscious person; consult a physician if symptoms persist
Acute Symptoms of Ingestion:	Mild irritation
Delayed Symptoms of Ingestion:	Advanced irritation
Immediate Medical Care / Special Treatment	
Is immediate medical care or special treatment required?	No
If so, what is needed:	N/A

Section 5: Fire-Fighting Measures	
Recommendations for fighting a fire caused by or including the chemical.	
Suitable Extinguishing Equipment:	Water Fog, Foam, Dry Chemical, CO2
Extinguishing equipment not appropriate:	None
Specific hazards created from chemical burning:	Toxic gases may be released
Special protective equipment needed:	Self-contained breathing apparatus

Section 6: Accidental Release Measures	
<i>Recommendations on the appropriate response to spills, leaks, or releases; including containment and cleanup practices to prevent or minimize exposure to people, properties, or the environment.</i>	
Personal Precautions:	Wear appropriate safety gloves, long sleeved clothing, and goggles with side shields and a NIOSH approved nuisance dust respirator.
Emergency Procedure(s):	Immediately contain the spill using absorbent materials.
Method(s) and material(s) used for containment:	The spilled chemical will be contained and remediated using absorbent materials such as Green Stuff Absorbent and disposed of in accordance with Section 13 of this SDS.
Cleanup procedure(s):	Dispose of any chemical waste according to local, state and federal guidelines.

Section 7: Handling and Storage	
<i>Guidance on the safe handling practices and conditions for safe storage of the chemical.</i>	
Handling precautions:	Wear appropriate safety apparatus, avoid contact, use only in well-ventilated areas
Hygiene practices:	Normal hygiene practices are sufficient
Safe storage recommendation:	Keep away from ignition sources, keep container tightly sealed, protect from freezing.
Incompatible storage options:	Oxidizers and Alkalis and/or Combustible Materials

Section 8: Exposure Controls/Personal Protection	
<i>Identification of the exposure limits, engineering controls, and personal protective measures that can be used to minimize worker exposure.</i>	
OSHA Permissible Exposure Limits (PELs):	Not listed
American Conference of Governmental Industrial Hygienists (ACGIH) Threshold Limit Values (TLVs):	Calcium Hydroxide – 5 mg/m3 Diesel – 100 mg/m3 Silica – 0.025 mg/m3
Exposure limit (recommended by manufacturer, importer or employer):	N/A
Appropriate Engineering Controls:	Local exhaust ventilation, eye wash station and safety shower
Recommendations for personal protective measures:	Chemical resistant gloves, safety goggles and NIOSH approved mask are recommended.
Special requirements of PPE, protective clothing or respirators:	None

Section 9: Physical and Chemical Properties	
<i>Identification of physical and chemical properties associated with the substance or mixture.</i>	
Appearance (Physical State):	Liquid
Color:	Grey to Brown
Odor:	Hydrocarbon
Odor Threshold:	Mixed
Vapor Pressure:	NDA
pH:	NDA
Relative Density:	NDA
Melting Point:	NDA
Freezing Point:	NDA
Solubility(ies):	Soluble
Initial Boiling Point:	NDA
Boiling Range:	NDA
Flash Point:	Closed cup: 71.5°C (160°F) [Pensky-Martens.] [Product does not sustain combustion.]
Evaporation Rate:	NDA
Flammability:	Non-flammable
Upper/lower flammability or explosive limits:	160/200
Partition Coefficient:	NDA
Auto-Ignition Temperature:	NDA
Decomposition Temperature:	NDA
Viscosity:	NDA

Section 10: Stability and Reactivity	
<i>Description of the reactivity hazards of the chemical and the chemical stability information.</i>	
Reactivity	
Description of specific test data: None	
Chemical Stability	
Is the chemical stable or unstable: Stable under normal operating conditions	
Stabilizers needed to maintain chemical stability: None	
Safety issues that may arise should the chemical change in physical appearance: None	
Other	
Conditions in which hazardous reactions may occur: Storage near incompatible materials or heat	
Possibility of hazardous reactions: Moderate	
Will chemical react or polymerize: No	
Will chemical release pressure, heat, or any other hazardous conditions: Yes	
Conditions to avoid: Keep away from heat, sparks and flame	
Class(es) of incompatible material(s): Oxidizers and Acids	
Known or anticipated hazardous decomposition products produced because of storage, use, or heating: NDA	

Section 11: Toxicological Information	
<i>Identification of toxicological and/or health effects.</i>	
Likely routes of exposure: Inhalation, Skin, Ingestion, Eyes	
Delayed, immediate or chronic effects of short-term exposure: May cause irritation	
Delayed, immediate or chronic effects of long-term exposure: Possible Central Nervous System complications	
Numerical measurement of toxicity: Health: 2, Flammability: 2, Reactivity: 0	
Description of symptoms (lowest to most severe): Irritation Complications with central nervous system	
Is chemical listed in the National Toxicology Program (NTP) Report on Carcinogens: NDA	
Has chemical been found to be a potential carcinogen in the International Agency for Research on Cancer (IARC) Monographs: NDA	
Has chemical been found to be a potential carcinogen by OSHA: No	

Section 12: Ecological Information (non-mandatory)	
<i>Information to evaluate the environmental impact of the chemical if it were released to the environment.</i>	
Toxicity test results performed on aquatic and/or terrestrial organisms:	NDA
Does the chemical have the potential to degrade the environment (biodegradation, oxidation, hydrolysis, etc.):	N/A
Bioaccumulation test results:	N/A
Potential of chemical moving from soil to the groundwater:	Likely due to water solubility
Other adverse effects:	None known

Section 13: Disposal Considerations (non-mandatory)	
<i>Guidance on proper disposal practices, recycling or reclamation of the chemical or its container. Safe handling practices to minimize exposure. (Refer to section 8 for more information)</i>	
Appropriate disposal containers:	Original container or any in accordance with local, state and federal regulations
Appropriate disposal methods:	Dispose of in accordance with local, state and federal regulations
Physical and chemical properties that may affect disposal activities:	None
Special precautions for landfills or incineration activities:	None
Is it advisable to utilize sewage disposal for this chemical:	No

Section 14: Transport Information (non-mandatory)	
<i>Guidance on classification information for shipping and transporting the chemical by road, air, rail, or sea.</i>	
Dot classification:	Not Regulated
Dot proper shipping name:	Mixture
Packing Group Number:	Unknown
Environmental Hazards:	N/A
International Bulk Chemical (IBC)	
Code:	N/A
Special precautions during transportation:	None

Section 15: Regulatory Information (non-mandatory)	
<i>Identification of safety, health and environmental regulations specific for the chemical that is not indicated anywhere else on this SDS.</i>	
Chemical Weapons Convention (CWC): This product does not contain any chemicals listed under the CWC schedules of chemicals. Clean Air Act - Hazardous Air Pollutants (HAP): This product does not contain any chemicals listed within the Hazardous Air Pollutants. Clean Air Act - Ozone Depleting Substances (ODS): This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpart A, App. A+B). Clean Water Act - Priority Pollutants (PP): This product does not contain any PP listed under the U.S. Clean Water Act, Section 307 (2)(1) PP List (40 CFR 401.15). Occupational Safety and Health Act (OSHA): The OSHA Hazard Communication Standard (29 CFR 1910.1200) defines this chemical as a C.4.1, C.4.2 & C.4.3 Acute Toxicity - Oral, Dermal & Inhalation: Hazard Category 4, C.4.19 Flammable Liquids: Hazard Category 2. For more information, see Section 2 of this SDS. Resource Conservation and Recovery Act (RCRA): This product is not considered to be a P- or U-Listed hazardous waste under RCRA (40 CFR 261). Superfund Amendments and Reauthorization Act (SARA) Title III: Section 302 - Extremely Hazardous Substances (EHS): This product does not contain any chemicals regulated under Section 302 (40 CFR 355) as extremely hazardous substances. Superfund Amendments and Reauthorization Act (SARA) Title III: Section 304 - CERCLA: This product does not contain any chemicals regulated under Section 304 (40 CFR 302) as hazardous substance(s) for emergency release notification. Superfund Amendments and Reauthorization Act (SARA) Title III: Section 311/312 - Hazard Communication Standard (HCS): This product is not regulated under Section 3-1-312 (40 CFR 370). Superfund Amendments and Reauthorization Act (SARA) Title III: Section 313 Toxic Chemical List (TCL): This product does not contain any chemicals for routine annual toxic chemical release reporting under Section 313 (40 CFR 372). TSCA Section 5(e) - Consent Order / SNUR: The following chemical(s) are subject to a Section 5(3) Consent Order for Significant New Use Rule (SNUR): Chemical Name: No. 2 Diesel Fuel CASRN: 68476-34-6 Percent in Composition: 70% TSCA Section 8(b) - Inventory Status: The following chemical(s) are subject to TSCA Section 8(b): Chemical Name: No. 2 Diesel Fuel CASRN: 68476-34-6 Percent in Composition: 70% TSCA Section 12(b) - Export Notification: This product does not contain any chemical(s) that are subject to a Section 12(b) export notification.	

Items in red require immediate attention.

Section 16: Other Information	
Date of SDS Preparation:	August 18, 2015
Revision Date:	N/A
Changes from previous version:	N/A
Other useful information:	None

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